LISTING OF CLAIMS

- 1. (Original) A packaging construct for regulatable expression of flavivirus structural proteins in an animal cell, said vector comprising a regulatable promoter operably linked to a nucleotide sequence encoding a flavivirus structural protein translation product that comprises C protein, prM protein and E protein.
- 2. (Original) The packaging construct of claim 1, wherein the regulatable promoter is tetracycline-repressible.
- 3. (Original) The packaging construct of claim 2 wherein the regulatable promoter is a tetracycline repressible CMV promoter.
- 4. (Original) The packaging construct of claim 1, wherein the nucleotide sequence encodes one or more variant or mutated flavivirus structural proteins respectively having at least 80% amino acid sequence identity to C protein, prM protein or E protein.
- 5. (Original) The packaging construct of claim 1, further comprising an IRESNeo selection marker nucleotide sequence.
- 6. (Original) The packaging construct of claim 1 wherein the C protein, prM protein and E protein are structural proteins of Kunjin virus.
 - 7. (Original) A packaging cell comprising the packaging construct of claim 1.
- 8. (Original) A packaging cell comprising the packaging construct of claim 2 and a tetracycline transactivator construct.
 - 9. (Original) The packaging cell of claim 7, which is a BHK21 cell.

- 10. (Original) A flaviviral packaging system comprising: (i) a packaging construct according to claim 1; and (ii) a flaviviral expression construct comprising: (a) a flaviviral replicon; (b) a heterologous nucleic acid; and (c) a promoter operably linked to said replicon.
- 11. (Original) The flaviviral packaging system of claim 10, wherein the flaviviral replicon is a Kunjin virus replicon, Dengue virus replicon or a West Nile virus replicon.
- 12. (Original) The flaviviral packaging system of claim 10, wherein the heterologous nucleic acid encodes one or more proteins expressible in an animal cell.
- 13. (Original) The flaviviral packaging system of claim 12, wherein the one or more proteins is/are immunogenic.
- 14. (Currently amended) The flaviviral packaging system of Claim <u>1110</u> wherein the replicon <u>is a Kunjin virus replicon that</u> encodes on or more one or more mutated non-structural proteins <u>selected from the group consisting of:</u>
 - (i) Leucine residue 250 substituted by Proline in the NS1 non-structural protein.
 - (ii) Alanine 30 substituted by Proline in the nonstructural protein NS2A;
 - (iii) Asparagine 101 substituted by Aspartate in the nonstructural protein NS2A; and
 - (iv) Proline 270 substituted by Serine in the nonstructural protein NS5.
 - 15. (Canceled)
- 16. (Original) The flaviviral packaging system of claim 10, wherein the regulatable promoter is tetracycline-repressible.
- 17. (Original) The flaviviral packaging system of claim 16 wherein the regulatable promoter is a tetracycline repressible CMV promoter.
- 18. (Original) The flaviviral packaging system of claim 10 wherein the flaviviral expression construct is in RNA form.

- 19. (Original) A packaging cell comprising the flaviviral packaging system of claim 10.
- 20. (Original) A packaging cell comprising the flaviviral packaging system of claim 16 and a tetracycline transactivator construct.
 - 21. (Original) The packaging cell of claim 19 or claim 20, which is a BHK21 cell.
- 22. (Original) A method of producing flavivirus VLPs including the step of: (i) introducing the packaging construct of claim 1 into a host cell to thereby produce a packaging cell; (ii) introducing into said packaging cell a flaviviral expression construct comprising: (a) a flaviviral replicon; (b) a heterologous nucleic acid; and (c) a promoter operably linked to said replicon; and (iii) inducing production of one or more VLPs by said packaging cell.
- 23. (Original) The method of claim 22, wherein the flaviviral expression construct is in RNA form.
 - 24. (Original) Flaviviral VLPs produced according to the method of claim 22.
- 25. (Currently amended) An immunotherapeutic immunogenic composition comprising the VLPs of claim 24 and a pharmaceutically acceptable carrier diluent or excipient.
 - 26. (Canceled)
- 27. (Withdrawn) A method of producing a recombinant protein including the step of infecting a host cell with the VLPs of claim 24, whereby said heterologous nucleic acid encoding said protein is expressed in said host cell.
 - 28. (Withdrawn) The method of claim 27, wherein the host cell is a mammalian cell.

- 29. (Withdrawn) A method of immunizing an animal including the step of administering the immunotherapeutic composition of claim 26 to the animal to thereby induce an immune response in the animal.
 - 30. (Withdrawn) The method of claim 29, wherein the animal is a mammal.
 - 31. (Withdrawn) The method of claim 30, wherein the mammal is a human.
 - 32. (Previously presented) A method of immunizing an animal including the steps of:
- (i) introducing the packaging construct of Claim 1 into a host cell to thereby produce a packaging cell;
 - (ii) introducing into said packaging cell a flaviviral expression construct comprising:
 - (a) a flaviviral replicon;
 - (b) a heterologous nucleic acid; and
 - (c) a promoter operably linked to said replicon; and
 - (iii) inducing production of one or more VLPs by said packaging cell;
- (iv) combining the one or more VLPs with a pharmaceutically acceptable carrier diluent or excipient to form a vaccine; and
- (v) administering the vaccine to the animal to thereby induce an immune response in the animal.
 - 33. (Previously presented) The method of Claim 32, wherein the animal is a mammal.
 - 34. (Previously presented) The method of Claim 33, wherein the mammal is a human.
- 35. (Previously presented) A method of producing a recombinant protein including the steps of:
- (i) introducing the packaging construct of Claim 1 into a first host cell to thereby produce a packaging cell;
 - (ii) introducing into said packaging cell a flaviviral expression construct comprising:
 - (a) a flaviviral replicon;

- (b) a heterologous nucleic acid; and
- (c) a promoter operably linked to said replicon;
- (iii) inducing production of one or more VLPs by said packaging cell;
- (iv) infecting a second host cell with the VLPs produced at step (iii) whereby said heterologous nucleic acid encoding said protein is expressed in said second host cell.
- 36. (Previously presented) The packaging construct of Claim 1, wherein the regulatable promoter has a promoter activity controllable in response to one or more physical or chemical regulatory agents.
- 37. (Previously presented) The packaging construct of Claim 1, suitable for stable expression of flavivirus structural proteins.
- 38. (New) The method of Claim 35, wherein the flaviviral expression construct is in RNA form.
 - 39. (New) The method of Claim 35, wherein the second host cell is a mammalian cell.